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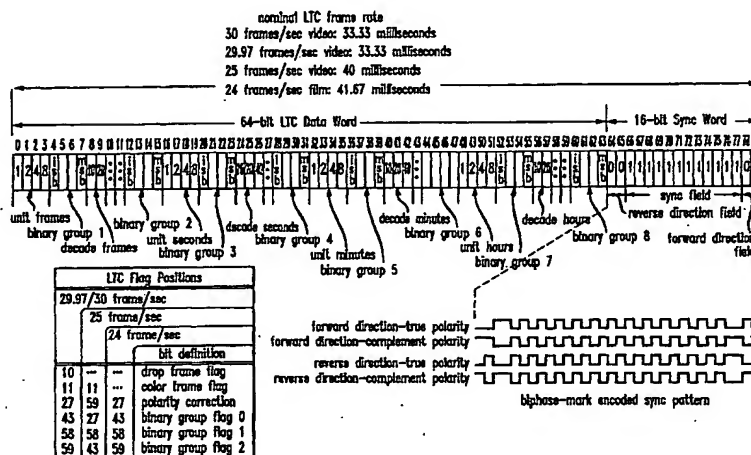
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(54) Title: **LINEAR TIME CODE RECEIVER**



(57) Abstract: An Linear Time Code (LTC) receiver (10) for receiving and decoding a LTC frame of the type used in connection with film and television and accompanying audio includes a first counter (12) that measures the number of reference clock periods within the duration of a bi-phase mark signal interval to yield a timing reference for extracting the payload from the LTC frame. A second counter (16) detects a sync field within the LTC frame to establish the LTC frame direction. A third counter (18) serves to count the number of symbols in the LTC frame. A state machine (12) responsive to the counts of the first, second and third counters (14, 16, 18), serves to (a) detect a valid synchronization sequence within an incoming LTC frame; (b) determine the LTC frame direction, (c) decode (extract) payload information from the LTC frame; and (d) transfer the payload information in an order determined by the LTC frame direction.